

- 42 -

**MODULATED ACOUSTIC AGGLOMERATION SYSTEM AND METHOD**

**ABSTRACT**

An acoustic agglomerator for agglomerating  
5 constituents in a fluid is provided. The acoustic  
agglomerator includes an area containing a fluid having  
constituents and an acoustic generator operable to generate  
a modulated acoustic field to enhance agglomeration of the  
constituents in the fluid. In one aspect the acoustic  
10 field is frequency modulated and in other aspects the  
acoustic field is amplitude modulated, while yet in other  
aspects the acoustic field is both frequency and amplitude  
modulated. A method for agglomerating constituents in a  
fluid is also provided. The method includes providing a  
15 fluid with a constituent and applying an acoustic field to  
the fluid. The method provides for modulating the acoustic  
field to cause the constituent to agglomerate.